

**Overview of DID/CDRL Changes to M&O Documents  
ECS CCR # 960488a**

<b>DID</b>	<b>TITLE</b>	<b>POCs</b>	<b>VARIANCE</b>	<b>RATIONALE</b>
302/DV1	ECS Facilities Plan	ECS: T. Jaegar ESDIS: G. Hunolt, S. Broder	<b>Delivery Date From:</b> SDR-2wk (P) CDR-2wk (F) <b>Delivery Date To:</b> SDR-2 weeks (P) CDR + 1 month (F)	The preparation of the Facilities Plan requires knowledge of the detailed design presented at CDR. The detailed design is not available to facility planners until days before CDR, which is too late for preparation of the plan. Currently, the document is outdated by the time it is published. Delaying submission to CDR +1 Month would enable the plan to be based on the detailed design and thereby improve the value of the document to the DAACs and the Project.
603/OP1	Operational Readiness Plan	ECS: B. Burford ESDIS: G. Hunolt, S. Broder	<b>Modify DID Description:</b> See red-lines to DID for modification details.  <b>Delivery Date From:</b> RRR - 2 weeks <b>Delivery Date To:</b> CSR - 2 weeks	Clarifies activities for preparing, verifying, and reviewing the operational readiness of all ECS M&O staff, procedures, hardware, software and databases in preparation for ECS system and mission change events (e.g., Release-A, TRMM operations, Release-B, AM-1 operations).  Must be available prior to execution of readiness activities beginning post-CSR.
605/OP1	Operations Scenarios (elements)	ECS: B. Burford ESDIS: G. Hunolt, S. Broder	<b>Modify DID Description:</b> See red-lines to DID for modification details.	Clarifies the DID and deletes requirement to include detailed GUI design prior to CDR. GUIs are designed post-CDR and reviewed in Workshops. GUIs should be documented in DID 609.
607/OP2	Maintenance & Ops Manual	ECS: B. Burford ESDIS: G. Hunolt, S. Broder	<b>Modify DID Description:</b> See red-lines to DID for modification details.  <b>Change title to:</b> ECS M&O Position Descriptions	Clarifies the DID and deletes requirement to include "operations concepts" already documented in DID 604 and 605 and "how system elements are operated and maintained" already documented in DID 611 Ops Procedures and DID 613, 614 Maintenance Plans. New title will be more indicative of document contents.

DID	TITLE	POCs	VARIANCE	RATIONALE
609/OP1	Maintenance & Ops Procedures	ECS: B. Burford ESDIS: G. Hunolt, S. Broder	<b>Modify DID Description:</b> See red-lines to DID for modification details.  <b>Change title to:</b> Operations Tools Manual.	Clarifies DID and deletes requirement to “provide detailed description of the M&O procedures for elements and subsystems” already provided in DID 611. Also deletes requirement to provide “step-by-step maintenance procedures.” Such information is provided in the manufacturer’s maintenance documentation and is useful only to the maintenance vendor. Further, addressing the “specific preventive maintenance frequencies and duration, and identification of unique maintenance procedures” is unnecessary because such information is not needed for vendor-maintained COTS equipment. If equipment is to be contractor maintained, the information will be addressed in the COTS Maintenance Plan. The new title will be more indicative of document contents.
611/OP3	Operator’s Manuals	ECS: B. Burford ESDIS: G. Hunolt, S. Broder	<b>Modify DID Description:</b> See red-lines to DID for modification details.  <b>Change title to:</b> Mission Operations Procedures.	Clarifies DID and changes focus from performing subsystem functions to performing mission operations activities to maintain the system and satisfy science mission objectives. New title will be more indicative of document content.
612/OP3	Programmer’s Manuals		<b>From:</b> 1 month prior to each Release <b>To:</b> RRR + 1 month	There are several changes in the last few months prior to Release Readiness that do not get documented in the manuals that get delivered prior to Release necessitating an update after the Release. By delivering this DID after RRR, the document will be more stable and will prove to be of better use to sustaining engineering programmers

DID	TITLE	POCs	VARIANCE	RATIONALE
613/OP1	COTS Maintenance Plan	ECS: T. Jaegar ESDIS: G. Hunolt, S. Broder	<p><b>Modify DID Description:</b> See red-lines to DID for modification details.</p> <p><b>Delivery Date From:</b> PDR - 2 weeks (P) CDR - 2 weeks (U/D)</p> <p><b>Delivery Date To:</b> PDR - 2 weeks (P) CDR + 1 month (U/D)</p>	<p>Clarifies DID and changes focus from describing policies and procedures to describing the approach and processes to be applied to maintenance of all COTS and software for which the Contractor has M&amp;O responsibility.</p> <p>The preparation of a maintenance plan requires knowledge of the detailed design and the specific COTS products selected. The detailed design is not available to maintenance planners until days before CDR, which is too late for preparation of the plan. Currently, the document is outdated by the time it is published. Delaying submission to CDR +1 Month would enable the plan to be based on the detailed design and thereby improve the value and content of the document to the Project.</p>
614/OP1	Developed Software Maintenance Plan	ECS: B. Burford ESDIS: G. Hunolt, S. Broder	<p><b>Modify DID Description:</b> See red-lines to DID for modification details.</p> <p><b>Delivery Date From:</b> PDR - 2 weeks (P) CDR - 2 weeks (U/D)</p> <p><b>Delivery Date To:</b> PDR - 2 weeks (P) CDR + 1 month (U/D)</p>	<p>Clarifies DID and changes focus from procedures to processed for maintaining developed software. The corresponding procedures will be documented in DID 611/OP3</p> <p>The preparation of a maintenance plan requires knowledge of the detailed design and approved product baseline for ECS. The detailed design is not available to maintenance planners until days before CDR, which is too late for preparation of the plan. Currently, the document is outdated by the time it is published. An approved preliminary Developed Software Maintenance Plan is already available. Delaying submission to CDR +1 Month would enable the plan to be based on the approved detailed design and thereby improve the value and content of the document for use by the ECS Project.</p>

615/OP1	Special Maintenance and Test Equipment	ECS: T. Jaegar ESDIS: G. Hunolt, S. Broder	<b>Delivery Date From:</b> 1 month after PDR/IDR <b>Delivery Date To:</b> CDR + 1 month	Identification of special maintenance and test equipment is dependent upon the specific vendor products selected in the detailed design. Delaying submission to after CDR provides time to review the COTS products to determine if there are maintenance or test equipment requirements.
---------	--	--	--	---

DID	TITLE	POCs	VARIANCE	RATIONALE
616/OP2	Integrated Logistics Support Plan	ECS: T. Jaegar ESDIS: G. Hunolt, S. Broder	<b>Change title to :</b> Integrated Support Plan	A previous NASA RID commented that the name "ILS Plan" should be changed to "Integrated Support Plan." The "ECS ILS Plan" is a Government-prepared document referenced in the SOW that provides guidance to the contractor regarding preparation of an Integrated Support Plan. The correct name of the contractor's document is "Integrated Support Plan. "
618/OP3	Replacement Part List and Spare Parts List	ECS: T. Jaegar ESDIS: G. Hunolt, S. Broder	<b>Delivery Date From:</b> Each CDR - 2 weeks & each RRR - 2 weeks <b>Delivery Date To:</b> Each CDR + 1 month & each RRR - 2 weeks	Preparation of replacement and spare parts lists is dependent upon the equipment selected for the detailed design. The detailed design is not available until days prior to the CDR. Once the detailed design is available it takes time to obtain the parts information, determine spares requirements, and prepare the list. Delay in initial submission would improve the value of the document to the Project.
619/OP3	Test and Support Equipment Requirements List	ECS: T. Jaegar ESDIS: G. Hunolt, S. Broder	<b>Delivery Date From:</b> Each CDR - 2 weeks & each RRR - 2 weeks <b>Delivery Date To:</b> Each CDR + 1 month & each RRR - 2 weeks	Preparation of test and support equipment requirements lists is dependent upon the equipment selected for the detailed design. The detailed design is not available until days prior to the CDR. Once the detailed design is available it takes time to obtain the equipment information, determine requirements, and prepare the list. Delay in initial submission would improve the value of the document to the Project.

DID	TITLE	POCs	VARIANCE	RATIONALE
622/OP2	ECS Training Plan	ECS: B. Burford ESDIS: G. Hunolt, S. Broder	<p><b>Modify DID Description:</b> See red-lines to DID for modification details.</p> <p><b>Delivery Date From:</b> Each PDR - 2 weeks &amp; each CDR + 1 month <b>Delivery Date To:</b> Each PDR - 2 weeks &amp; each CSR - 3 months</p>	<p>Clarifies and simplifies DID. Deletes inclusion of “requirements analysis, staffing” and “detailed” schedules. Requirements analyses are not applicable but student training requirements will be included. Staffing is included in other documents (e.g., DID 608 and other contract documents). Detailed schedules change and will be provided but should not be included in formal deliverable. Test and certification “procedures” should be changed to “approach” since procedures details will be provided in DID 626 M&amp;O Certification .</p> <p>The Training Plan is not needed until CSR-3 Months and its accuracy and completeness is dependent upon the maturity of DIDs 605, 607, 611, and system design documentation.</p>
625/OP3	Training Material	ECS: B. Burford ESDIS: G. Hunolt, S. Broder	<p><b>Modify DID Description:</b> See red-lines to DID for modification details.</p> <p><b>Delivery Date From:</b> Each RRR - 2 weeks <b>Delivery Date To:</b> Each CSR - 2 weeks</p>	<p>Simplifies and clarifies class and console training materials required. Deletes unnecessary requirements for Job Task Schedule, Screening Test, Instructor Handbook, Textbook, Display Book, Student Workbook, Academic and Performance Tests and Certification/Skills Catalog.</p> <p>Earlier delivery of training materials required to support post-CSR initiation of training. Classroom and console training should be completed by RRR.</p>
626/OP1	M & O Certification Plan	ECS: B. Burford ESDIS: G. Hunolt, S. Broder	<p><b>Modify DID Description:</b> See red-lines to DID for modification details.</p>	<p>Clarifies and simplifies DID. Deletes “Training Staff Requirements” contained in DID 622 ECS Training Plan.</p>